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## **Facility Management Standards for Facilities, Infrastructure, & Environment (FMSFIE) FY2001 Goals**

### **Component 1 - FMSFIE Customer Service and Evaluation/Incorporation of Comments.**

Maintain and update the Center's FMSFIE and "Project" Internet Web Sites. Maintain a database containing FMSFIE comments/questions, and Center replies/resolutions. Review, research, answer comments and questions generated by customers concerning the FMSFIE, and update FMSFIE as necessary to incorporate customer comments and requests.

- a. Update and Maintain FMS Web Site ([POC - Bobby Carpenter](#))
- b. Update and Maintain Comments Database ([POC - Bobby Carpenter](#))
- c. Review, Research & Answer comments from customers -
  - (1) [POC - Bobby Carpenter](#) -
    - Entity Sets - Environmental Hazards, Common, & Utilities.
    - Software - AutoCAD & Map, Access.
  - (2) [POC - Nancy Towne](#) -
    - Entity Sets - Boundary, Cadastre, Hydrography, Improvement, & Transportation (General, Lock System, Marine, Marine Navigation, Ports, & Harbors).
    - Software - Intergraph GeoMedia, MGE; Bentley Micro Station, GeoGraphics; Access & Oracle.
  - (3) [POC - Denise Martin](#) -
    - Entity Sets - Buildings, Communications, & Demographics.
    - Software - ESRI Arc Info & Arc View, Access.
  - (4) [POC - Laurel Gorman](#) -
    - Entity Sets - Cultural, Ecology, Fauna, Flora, & Geology.
  - (5) [POC - Bryan Perdue](#) -
    - Entity Sets - Landform, Land Status, Military Operations, & Transportation (Air, Airfield Facility, Railroad, Vehicle, Pedestrian).
  - (6) [POC - Dr. Dan](#) -
    - Entity Sets - Auditory, Climate, Geodetic, Visual, Olfactory, & Soil.
    - Symbol Sets.
  - (7) [POC - Chip Fleming](#) -
    - SDSFIE Validation Rules, SDSFIE/FMSFIE Software, Data Modeling, & Relational Database Design.
- d. Develop technical guidance for distribution of CD and posting on FMS Web Site -
  - (1) White paper on "Building Space Entity Class" ([POC - Bobby Carpenter](#)).
  - (2) White paper & Excel spreadsheet on "Communications Entity Set" changes [POC - Denise Martin](#).

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## **Component 2 - Develop and Update Data Models for Integrated SDSFIE/FMSFIE Release.**

Perform developmental and final data modeling of the SDSFIE/FMSFIE. Develop "physical" data models for each SDSFIE/FMSFIE release. Develop "physical" data models to evaluate and test A/E/C CADD Standards, SDSFIE, and FMSFIE integration. Investigate developing "physical" data models using Visio & Rational data modeling software.

- a. Develop & Update Data Models [POC - Chip Fleming](#).
- b. Investigate development of data models using Visio & Rational data modeling software [POC - Chip Fleming](#).

## **Component 3 - Develop and Distribute Integrated SDSFIE/FMSFIE Release.**

Review, update (using "Maintainer"), perform QA/QC testing of FMSFIE aspects of the SDSFIE/FMSFIE database, Browser, Generator, and other SDSFIE/FMSFIE software applications, and distribute one integrated SDSFIE/FMSFIE release. Review and update FMSFIE related "Filters" and technical content. Test FMSFIE components on predominant CADD, GIS, FM, and relational database platforms.

- a. Review, coordinate with appropriate FUGs, etc., prepare spreadsheets, etc. to Update/Revise FMSFIE technical content -
  - (1) Entity Sets - Environmental Hazards, Common, & Utilities [\(POC - Bobby Carpenter\)](#).
  - (2) Entity Sets - Hydrography, Improvement, Transportation (General, Lock System, Marine, Marine Navigation, Ports, & Harbors), Boundary, & Cadastre [\(POC - Nancy Towne\)](#).
  - (3) Entity Sets - Buildings, Communications, & Demographics [\(POC - Denise Martin\)](#).
  - (4) Entity Sets - Cultural, Ecology, Fauna, Flora, & Geology [\(POC - Laurel Gorman\)](#).
  - (5) Entity Sets - Landform, Land Status, Military Operations, & Transportation (Air, Airfield Facility, Railroad, Vehicle, Pedestrian) [\(POC - Bryan Perdue\)](#).
  - (6) Entity Sets - Auditory, Climate, Geodetic, Visual, Olfactory, & Soil [\(POC - Dr. Dan\)](#).
  - (7) Review spreadsheets, etc. for compliance with FMSFIE Validation Rules & relational database design. Perform data modeling to assist in update revision of FMSFIE [\(POC - Chip Fleming\)](#).
- b. Update FMS Using "Maintainer" -
  - (1) Tables & Domains associated with Environmental Hazards, Utilities, Buildings, & Common Entity Sets [\(POC - Bobby Carpenter\)](#).
  - (2) All new Entity Sets, Classes, & Entity Types. Tables and Domains associated with remaining Entity Sets [\(POC - Chip Fleming\)](#).
- c. Perform QA/QC review/testing of FMSFIE using Maintainer [\(POC - Chip Fleming\)](#).
- d. Test Browser, Filter Maker, & Generator Software -
  - (1) Test all software applications prior to delivery to Center [\(POC - Barry Schimpf\)](#).
  - (2) Check Generator(s) for Oracle, & Access [\(POC - Nancy Towne\)](#).
  - (3) Debugging of all software applications & check Generator for SQL Server [\(POC - Chip Fleming\)](#).

## **Component 4 - Update/Improve SDSFIE/FMSFIE Software Tools.**

Continued update and improvement of the SDSFIE/FMSFIE software tools (e.g., Browser, Generator, Filter Maker, Translator, and Data Entry) in response to Customer requirements, and to maintain compatibility with COTS software upgrades (e.g., operating system, CADD, GIS, and database). The intent will be to provide "user-friendly" software tools which enhance and facilitate the Customer's use of the SDSFIE/FMSFIE.

- a. Update/Improve SDSFIE/FMSFIE Software Tools [\(POC - Barry Schimpf\)](#).

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### **Component 5 - FMSFIE Related Meetings and Briefings.**

Attend meetings concerning use of FM software and the FMSFIE. Develop and provide FMSFIE related briefings at the Center, and at various conferences, installations, districts, and meetings (to the extent of available funds). Continued coordination with Federal CAFM initiatives. Host meetings with small groups of technical experts (to the extent available funds permit) for the review and expansion of the FMSFIE technical content. Review and update FMS Strategic Plan.

- a. FMSFIE Related Meetings & Briefings
- b. Update FMSFIE Strategic Plan ([POC - Denise Martin](#)).

### **Component 6 - Develop "Asset Management - Facilities" Data Standards.**

Continue the incorporation of "legal" reporting data requirements for facilities based upon the evaluation and development of correlations between the Navy Facility Assets Data Base (NFADB), Army Integrated Facilities System Mini/Micro (IFS-M), Patuxent River Naval Air Station (PAX) Facilities Management Data Model, Air Force Interim Work Information Management System (IWIMS) and/or ACES, and USACE Financial Management System (CEFMS). Work with PAX, FM, and other FUG's to develop a "physical" (prototype) data model for integration into the FMSFIE. Update and expand the FMSFIE as necessary. Develop implementation and integration strategies using the PAX FM prototype for propagation throughout the DoD and Federal organizations.

- a. Develop "Asset Management - Facilities" Data Standards ([POC - Bobby Carpenter](#)).

### **Component 7 - Develop "Asset Management - Utilities" Data Standards.**

Complete the incorporation of Utility Management/Maintenance data standards based upon: (1) The "legal" reporting data requirements related to the repair/maintenance of utilities derived from the NFADB, IFS-M, PAX FM, IWIMS/ACES, and CEFMS; (2) DISA DDDS; (3) input from municipal organizations; and (4) requirements of regulatory agencies (e.g., the EPA).

- a. Develop "Asset Management - Utilities" Data Standards ([POC - Bobby Carpenter](#)).

### **Component 8 - Develop "Civil Works Reservoir Operations" FM Data Standards.**

Begin the incorporation of FM data standards related to USACE Civil Works Operations.

- a. Civil Works Operations FM Data Standards ([POC - Nancy Towne](#)).

### **Component 9 - Integration of A/E/C CADD Standards.**

Review and refine the attribute and domain tables developed under the A/E/C CADD Standards project for integration into a common data model with the SDSFIE and FMSFIE.

- a. Integration of A/E/C CADD Standards ([POC - Bobby Carpenter](#)).

### **Component 10 - Review and Develop Integration Strategies with Commercial FM Software.**

Review, evaluate, and develop integration methodology between FMSFIE and COTS FM software. Encourage COTS CADD/GIS/FM vendors to develop commercial applications based upon the FMSFIE.

- a. Review Maximo ([POC - Denise Martin](#)).

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**Component 11 - Maintain Federal Real Property Management Regulations Web Site.**

Maintain and update the content of the web site developed under Project Number 00.049.

- a. Identify & Review new Federal Real Property Management Regulations. Compile additions/changes to website ([POC - Bobby Bean](#)).
- b. Update Web Site ([POC - Bobby Bean](#)).